

LIPOXYGENASE INHIBITOR

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Abstract of JP7053359

PURPOSE: To provide a lipoxygenase inhibitor having excellent lipoxygenase inhibiting action and useful as an anti-inflammatory agent, anti-allergic agent, etc., by using piceatannol existing in flat-sedge belonging to the family Cyperaceae or its derivative as the active component.
CONSTITUTION: Dried flat-sedge is crushed and extracted with methanol, the extracted liquid is concentrated under reduced pressure, the concentrated liquid is subjected to liquid-liquid partition with ethyl acetate-water, the obtained organic layer is concentrated under reduced pressure and partitioned with hexane-90% methanol, the 90% methanol layer is concentrated, dried and subjected to silica gel chromatography, the adsorbed material is eluted with chloroform-methanol and the eluate is collected and subjected to high- performance liquid chromatography to obtain piceatannol of the formula (R<1> to R<4> are each OH, an alkyl, alkoxy, alkanoyl, etc.) or its derivative. The compound is used as an active component, compounded with a carrier and formed in the form of a pharmaceutical preparation to obtain the objective preparation for anti-inflammatory agent, anti-allergic agent, etc., having excellent lipoxygenase inhibiting action.

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